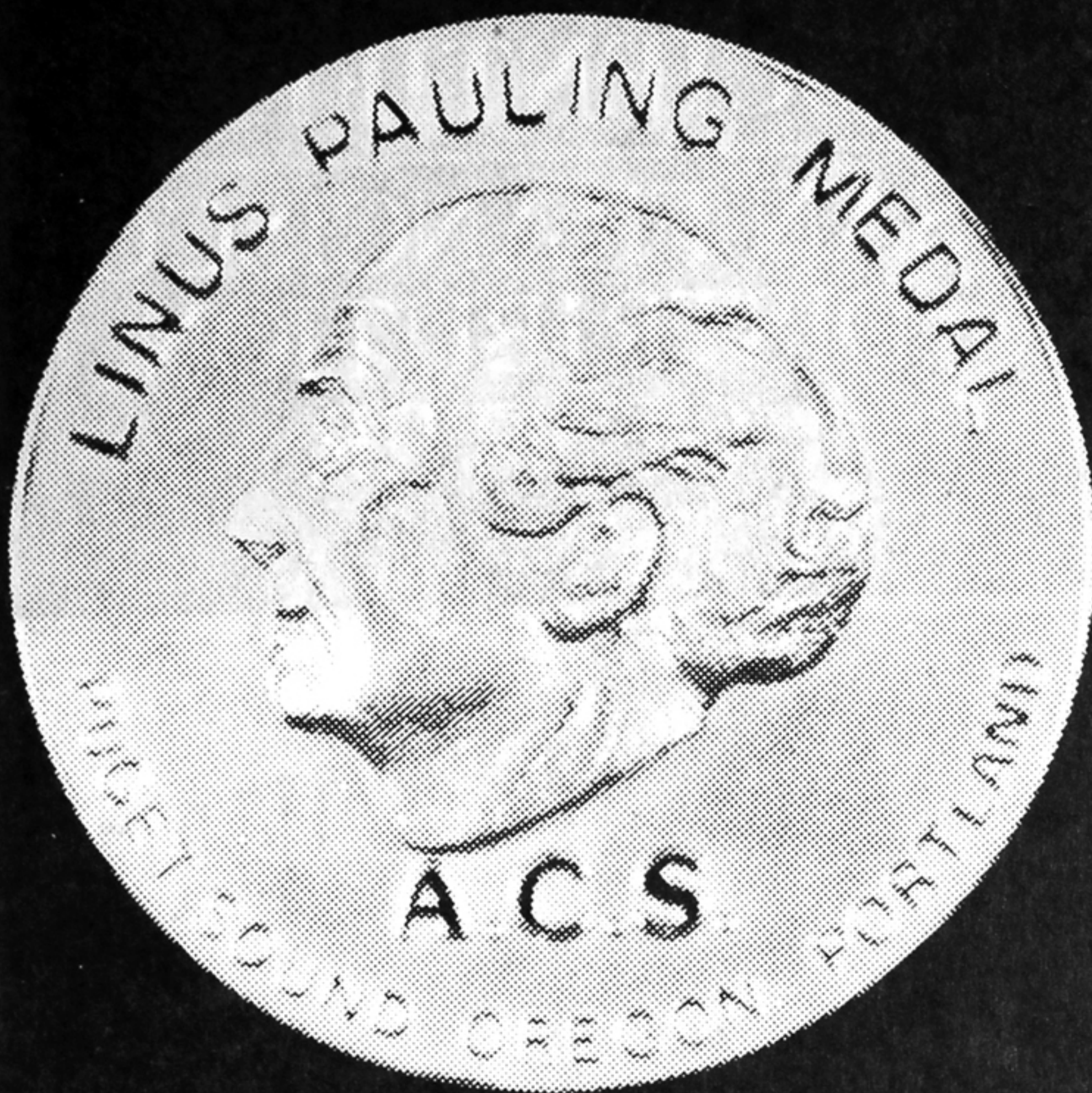


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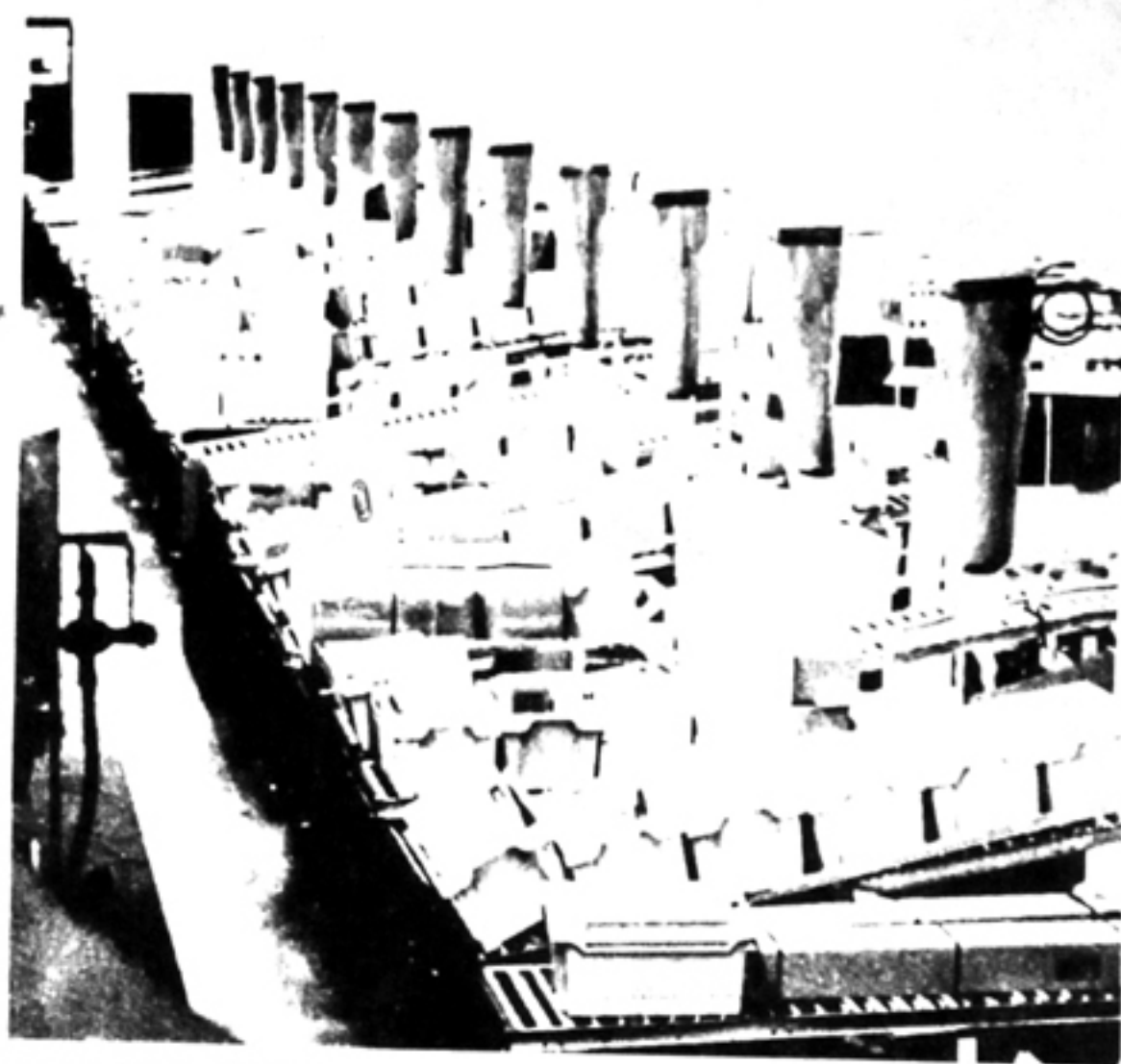
BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 53, Number 6



October 1992

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On the cover: The Pauling Award Medal (see related articles in this issue).

OCTOBER MEETING

- DATE:** Monday, October 19, 1992
- PROGRAM:** Dr. Ernest Simpson
California State Polytechnic University
ACS National Tour Speaker
- TOPIC:** "Chemistry of Wine"
- LOCATION:** Western Washington University
Bellingham, WA
Dinner - Faculty Club
Program - Haggard Hall 268
- SCHEDULE:** 6:00 PM Social Hour-
wine, cheese, non-alcoholic beverages
Wine tasting will be presented by Dr. Simpson
during the Social Hour.
6:45 PM Dinner-Chicken Dijon
8:00 PM Lecture-Haggard Hall 268
- DINNER COST:** \$15.00 includes social hour
- NOTE:** When you reserve your dinner, you have an obligation to pay. Once the food is ordered, the section is billed even if you do not show up.
- DIRECTIONS:** From the south, take exit 253 from I-5. Turn right onto Lakeway Drive (which becomes Holly) and continue until the 4th traffic light (Garden St.). Turn left onto Garden and then bear left when road forks after 0.8 miles. Take the first left onto Highland Drive and then left again into Parking Lot G at Western Washington University. The dinner will be held at the Faculty Club located in the Canada House, adjacent to the parking lot.
- RESERVATIONS:** Please make dinner reservations by NOON, Friday, October 16, 1992.
- OFFER TO STUDENTS:** The Section will pay half the cost of dinner for the first ten students (graduate, undergraduate, or high school) who call 543-1610.

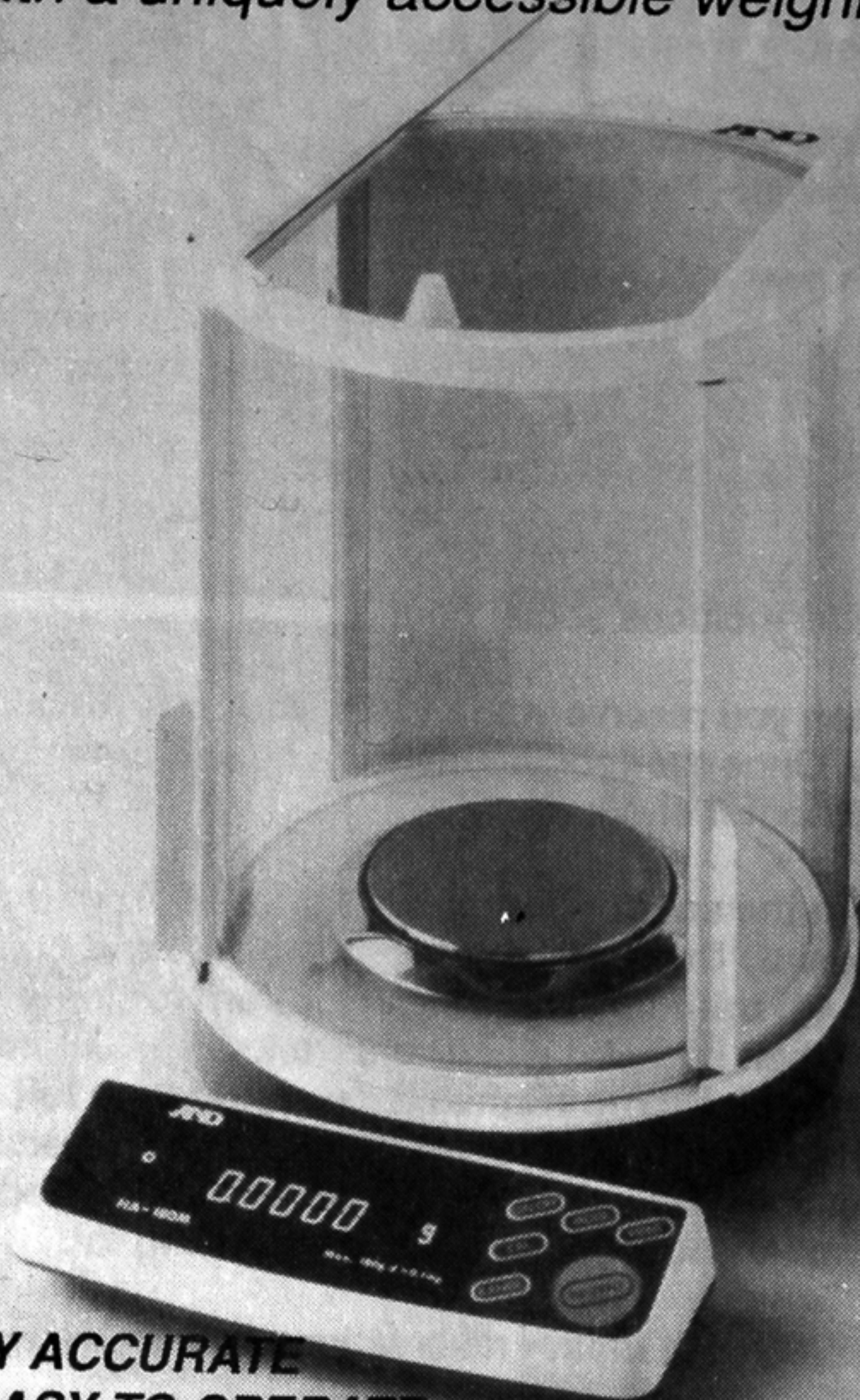
FUTURE MEETINGS 1992

- October 31
Saturday 1992 Pauling Award
Puget Sound Section, Host
University of British Columbia
Vancouver, B.C.
- November 16 Dr. Carleton B. Moore, Arizona State
"Chemistry of the Moon's Surface"

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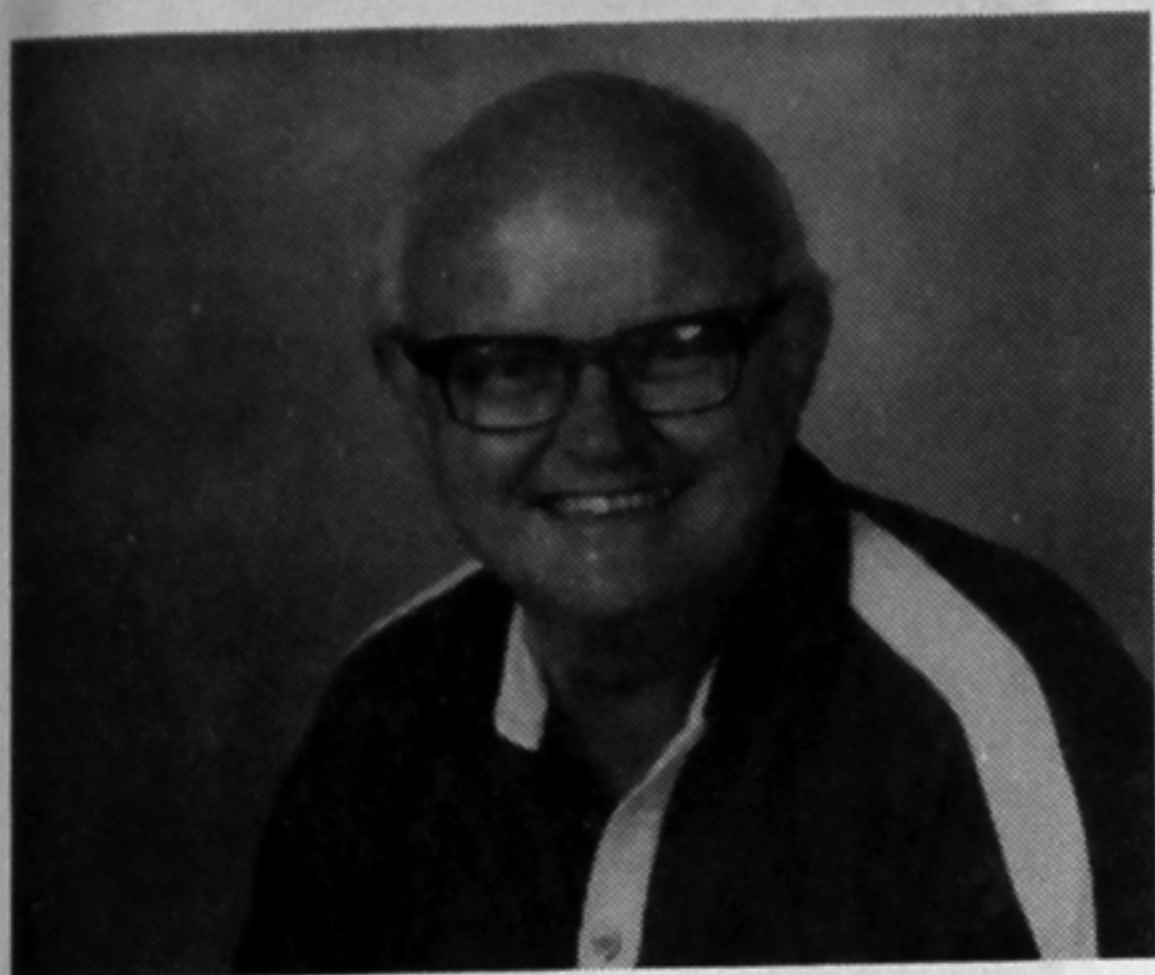
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DR. ERNEST SIMPSON TO ADDRESS OCTOBER MEETING OF THE PUGET SOUND SECTION ACS

Dr. Simpson joined the Chemistry Department at California State Polytechnic University, Pomona in 1968 after completing his B.S., M.S. and Ph.D. in organic chemistry at the University of New Mexico and one year as a visiting chemistry professor at Pomona College. In 1973-1974 he was on leave as visiting research associate in the Department of Enology and Viticulture at U.C./Davis. He is an active member of the American Society for Enology and Viticulture, serving on the editorial review board committee for the society's journal. He has published a California wine guide. At Cal Poly he has developed industrial chemistry courses/programs including serving since 1981 as the Coordinator for Cooperative Education in the College of Science. He is currently the Director of Cooperative Education for Cal Poly. His research interests and publications are in the areas of polycyclic aromatic hydrocarbons, C-13 labeled compounds, and phenolic compounds especially in grapes and wine. In 1984 and 1987 through 1990 he was selected for Exceptional Merit Service Awards at Cal Poly. He is a member of ACS (San Geronio section chairman, 1973), California Association of Chemistry Teachers (program chairman and southern section president, 1985-87), and Sigma Xi. Dr. Simpson lives in Claremont, California, with his wife Jill and his son Jeffrey (16).

ABSTRACT "CHEMISTRY OF WINE"

Dr. Simpson's talk will include an overview of wine and wine making and more detailed descriptions of the chemical composition of grapes and wine, laboratory methods for analysis of grapes and wines, sensory and organoleptic methods used for wine, the role of tannin and other phenolic compounds in wine, and some potential health aspects of wine.

CALL FOR NOMINATIONS FOR 1993 SECTION OFFICERS

Suggestions for nominations for the 1993 officers of the Puget Sound Section of the American Chemical Society should be made to Dr. Sheri Tonn, chair of the nominating committee, at Pacific Lutheran University, Department of Chemistry, (206-535-7552) by October 16th.

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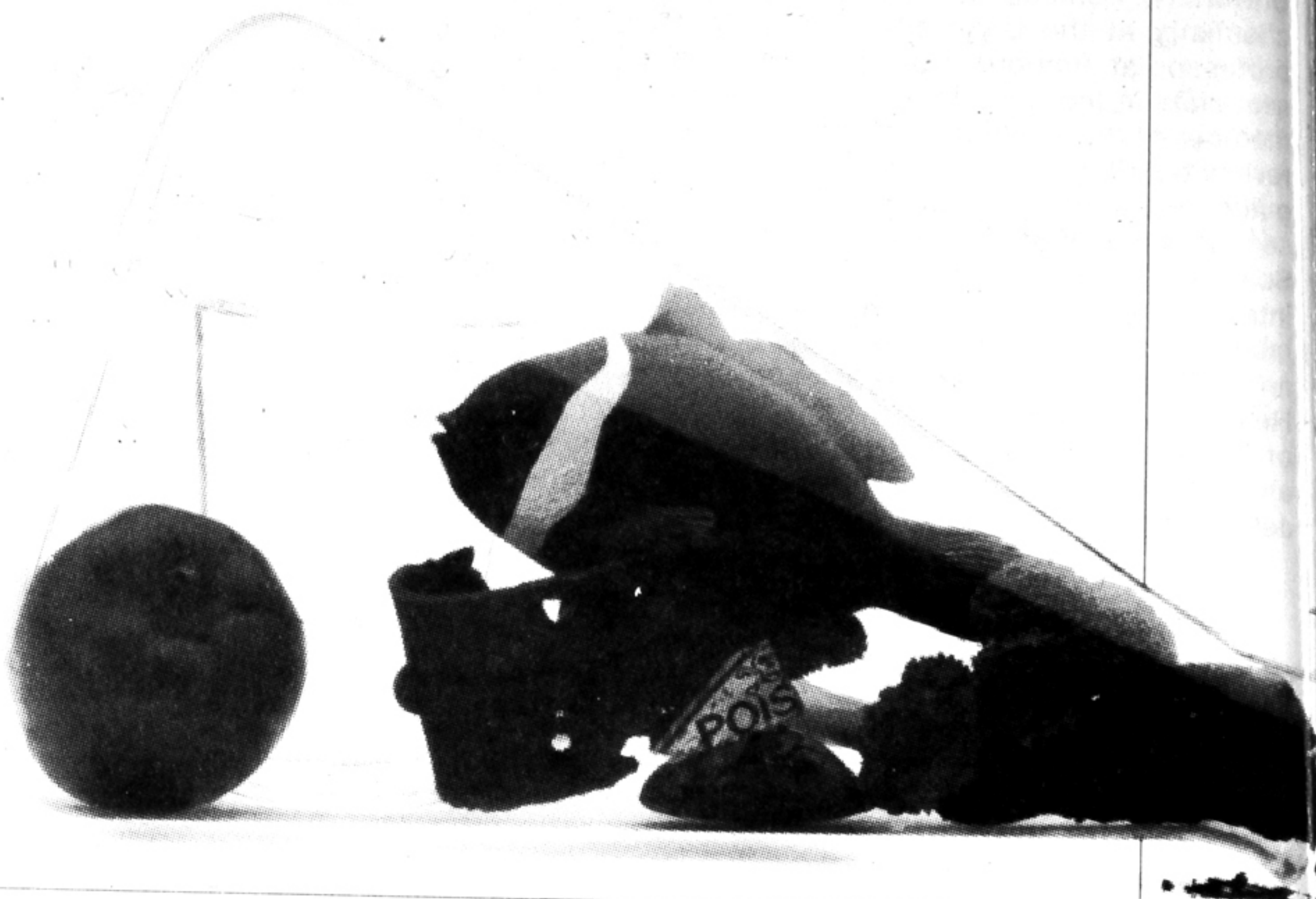
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Publicity for local events, news of interest to the local section, and inquiries regarding publication of the *Puget Sound Chemist* should be sent to our new address:

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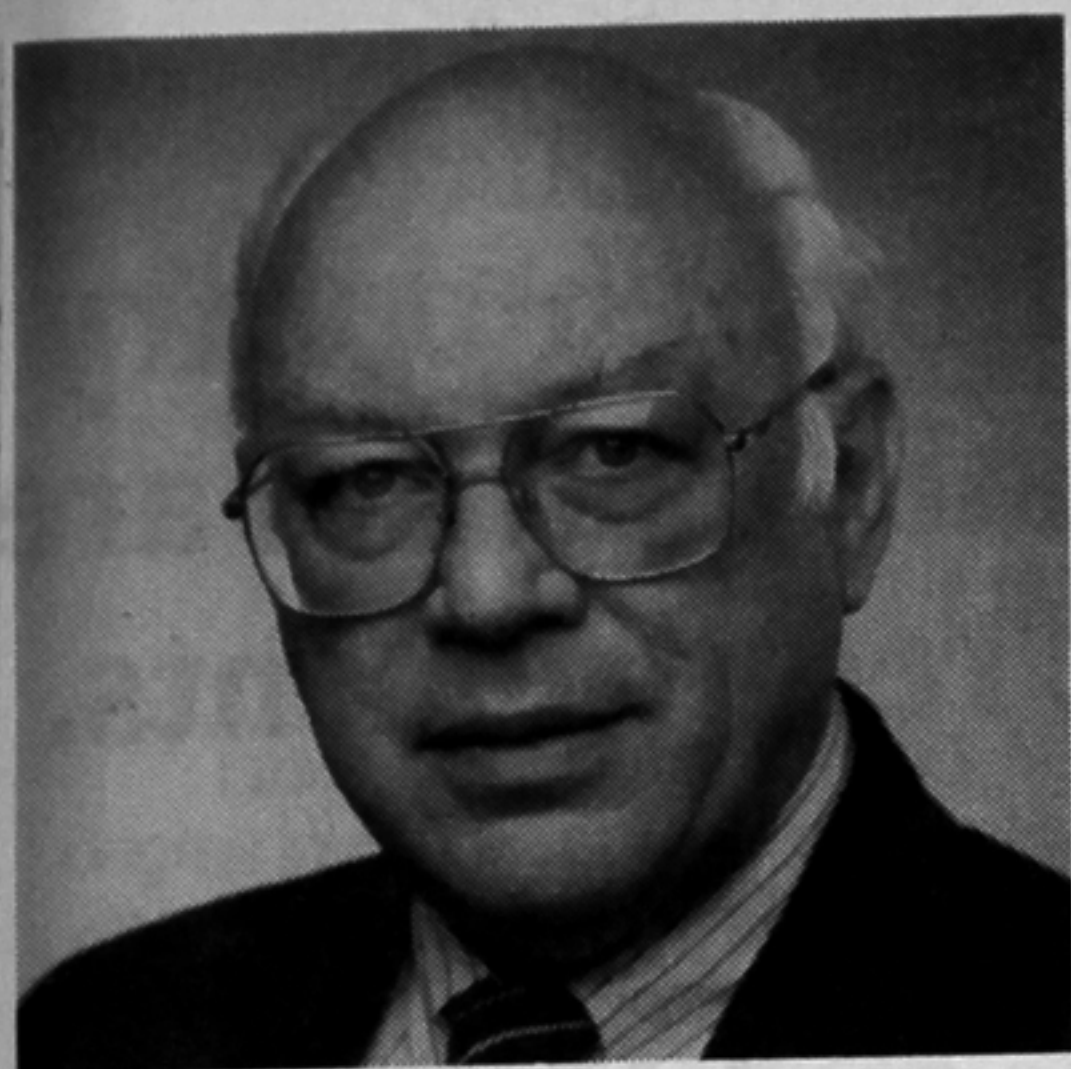
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PROFESSOR KENNETH WIBERG 1992 PAULING MEDALIST

The 1992 Pauling Award Medal ceremonies will be held on October 31, 1992, on the campus of the University of British Columbia, Vancouver, B.C. The 1992 recipient is Professor Kenneth Wiberg of Yale University. A symposium will be held in the afternoon, followed by a social hour and the Award Banquet featuring the Pauling Award Address by Professor Wiberg.

The Pauling Medal Award, cosponsored by the Oregon, Portland and Puget Sound Sections of the American Chemical Society, annually acknowledges outstanding achievement in chemistry and contributions to the field that have merited national and international recognition. The award is named after Dr. Linus Pauling, a native of the Pacific Northwest, because of the inspiration of his example. The 1992 event is being organized by the Puget Sound Section of the ACS.

Kenneth Wiberg has had a profound influence on physical organic chemistry through his pioneering work on strained small ring systems such as propellanes and cyclobutanes. With broad interests ranging from synthesis and physical measurement to *ab Initio* theory, his research follows well in the tradition of Pauling. His most recent contributions have focused on "the nature of the chemical bond" in organic chemistry through modern applications of concepts such as electronegativity, resonance and hybridization.

PAULING AWARD SYMPOSIUM

The Award Symposium will begin at 1 p.m. in Lecture Room 6 of the Woodward Instructional Resources Center (IRC6). Speakers will include Prof. Steven Kass of the University of Minnesota, Prof. Paul von Ragué Schleyer of the Universität Erlangen-Nürnberg, Prof. Andrew Streitwieser from the University of California, Berkeley, and Prof. Wiberg. A social hour, scheduled for 5:30 p.m., will be held following the symposium at the UBC Faculty Club. The symposium and social hour are free and open to the public.

The Award Banquet, a buffet-style dinner including wine service, will follow the social hour, service beginning at 6:30 p.m. The charge for the banquet is US \$32.50 or CDN \$37.50. The program will conclude with the Pauling Award Address immediately following the banquet.

Tickets for the banquet may be reserved by sending a check payable to "Pauling Symposium" to Prof. Gordon Bates, Dept. of Chemistry, University of British Columbia, Vancouver, B.C., Canada V6T 1Z1. Deadline for receipt of payment is **October 23**. Tickets may be picked up at the social hour prior to the dinner.

Directions to UBC: Take I-5 north to the U.S.-Canada border and continue on 99 into Canada. Upon entering Vancouver and crossing the Oak St. bridge, turn left on either 70th or 41st St. Follow either street—both run into S.W. Marine Drive—to the UBC campus. Parking will be available near the symposium site in two covered parking garages: the Health Science Parkade, adjacent to the IRC, and the North Parkade, approximately equidistant from the IRC and the Faculty Club. There are no attendants on duty on Saturdays and the parking fee is CDN \$4.00 (in CDN 25¢ or \$1 coins). Because of potentially heavy border traffic it is wise to plan on reaching the border by 11 a.m. For those wishing overnight accommodations, there are numerous hotels and motels in Vancouver.

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LINUS PAULING

Linus Pauling graduated from Oregon Agricultural College in 1922 with a degree in chemical engineering. He went on to the California Institute of Technology where, in 1925, he received a doctorate in chemistry. After a year abroad he joined Caltech as a faculty member, where he remained for over three decades. He is presently director of the Linus Pauling Institute for Science and Medicine in Menlo Park, California.

Pauling's wide-ranging scientific work has had enormous influence on almost every field of chemistry. Among his interests have been the structure of molecules and crystals, the nature of chemical bonding, immunochemistry and disease and, more recently, "orthomolecular medicine" — the determination of the optimal amounts of substances, such as vitamin C, for maintenance of good health. His discovery of the structures of several proteins, including the famous alpha-helix, led to his 1954 Nobel Prize in Chemistry. He has been awarded many other prizes and medals and holds honorary degrees from numerous distinguished universities around the world. His scientific publications number several hundred and include several books.

Science has not been Linus Pauling's sole interest. With his wife Ava Helen, whom he met while they were students at Oregon Agricultural College, he was an implacable foe of the spread of nuclear weapons, and he campaigned tirelessly on behalf of this issue. Pauling's public disclosure of the danger to human life from fallout resulting from tests of nuclear weapons in the atmosphere played a major role in the present international agreement banning such tests. For his efforts on behalf of peace, he was awarded the 1963 Nobel Peace Prize.

Linus Pauling is the most distinguished chemist from the Northwest. At the age of 87 this remarkable man is as active and enthusiastic as ever in his pursuit of new scientific truths in his social activism.

Linus Pauling is the most distinguished chemist from the Northwest. At the age of 91 this remarkable man is as active and enthusiastic as ever in his pursuit of new scientific truths in his social activism.

Pauling Award Recipients

1966 Linus Pauling	1978 Dudley Herschbach
1967 Manfred Eigen	1979 Daniel E. Koshland
1968 Herbert C. Brown	1980 John D. Roberts
1969 Henry Eyring	1981 Henry Taube
1970 Harold C. Urey	1982 George Pimentel
1971 Gerhard Herzberg	1983 Gilbert Stork
1972 E. Bright Wilson	1984 John S. Waugh
1973 E.J. Corey	1985 Harold A. Scheraga
1974 Roald Hoffmann	1986 Harry B. Gray
1975 Paul Bartlett	1987 Harden M. McConnell
1976 F. Albert Cotton	1988 Keith Ingold
1977 John A. Pople	1989 Neil Bartlett
1990 James P. Collman	
1991 Rudolf Marcus	

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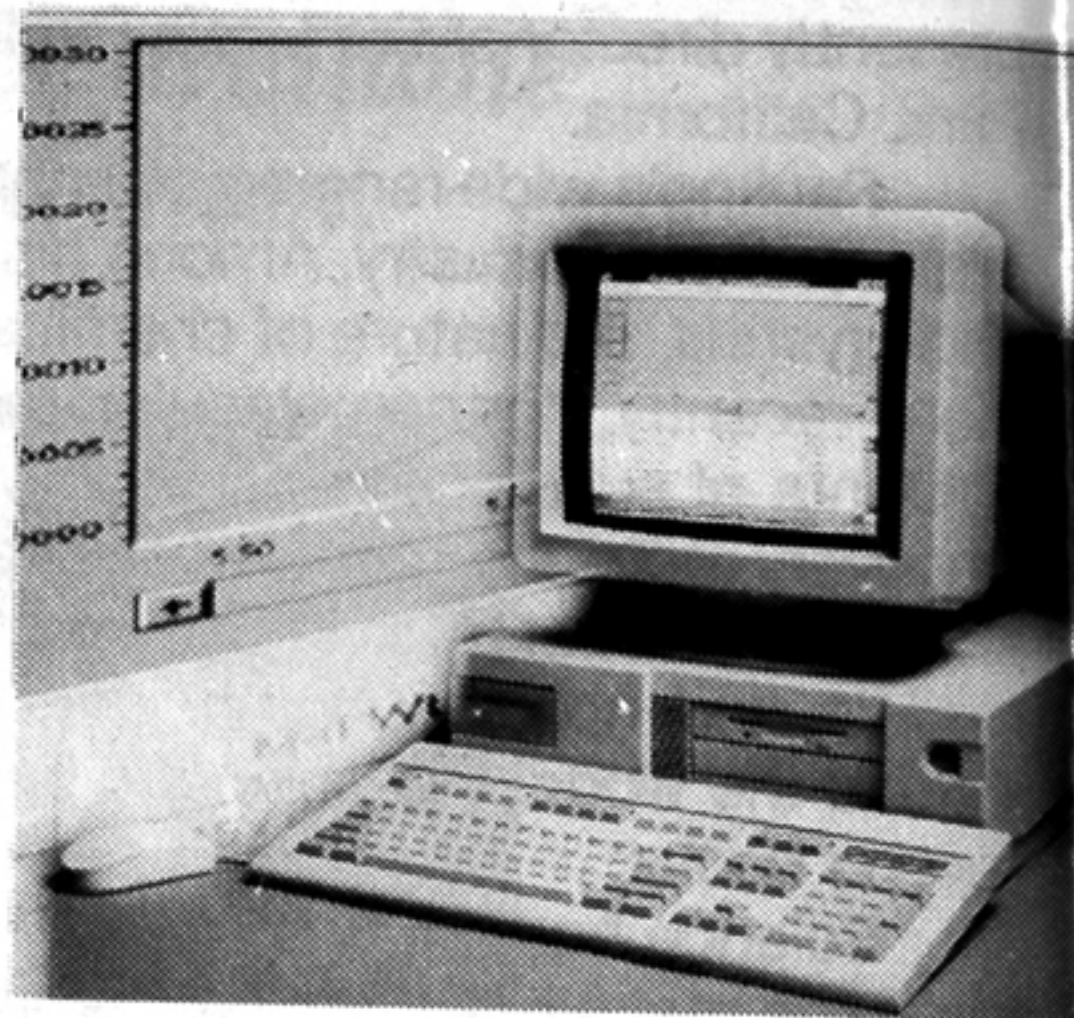
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IOTA SIGMA PI, WOMEN'S CHEMISTRY HONORARY, TO MEET AT FDAA LABORATORY IN BOTHELL ON NOVEMBER 10

Iota Sigma Pi, Women's National Chemistry Honorary, will hold a reception to acquaint women chemistry students from local universities with the organization. Women chemists and others from allied fields within the area are also invited to attend.

Iota Sigma Pi is a national organization which provides support to women pursuing a career in the field of chemistry with the awarding of scholarships to women graduate students in chemistry and recognizes the contributions of women research chemists through the awarding of the Agnes Faye Morgan Award.

The meeting will be held at the new laboratory facilities of the U.S. Food and Drug Administration in Bothell, WA, on November 10 at 7:30 P.M. The meeting includes a tour of the laboratory, as well.

The laboratory is located at 22201 23rd Dr. S.E., Bothell, WA. To get there from Highway 405, take Exit 26 onto Highway 527 (the Bothell-Everett Highway) and follow the signs marked "Mill Creek." About 2 blocks further, turn right into the Canyon Park Business Center at the sign for "Shoreline CC Northshore." This street is 220th St. S.E. ("R'Gyles" Restaurant will be on your right.) Follow 220th St. S.E. past Microsoft until you come to 23rd Dr. S.E. (Hillsdale Sash and Door is located at this corner.) Turn right onto 23rd Dr. S.E. Three blocks further you will see the F.D.A. laboratory on the left.

Please call Margaret Pitts (728-4698) or Celia Scott (363-4332) if interested. Transportation can be provided.

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CHEMICAL EDUCATION DIVISION ESTABLISHED AT THE UNIVERSITY OF WASHINGTON

The recent addition of three lecturers to the faculty ranks has given Chair Bob Watts an excellent means to enhance the role of education in the Department's mission through the creation of a separate Education Division. According to the American Chemical Society, such a move at a major research institution such as the UW is nearly unprecedented. The hiring of Frazier Nyasulu, Sara Selfe, and Deborah Wiegand over the last year has provided him with an opportunity to introduce innovative educational programs into the curriculum, as well as given the Department an increased ability to reach out to high school teachers and students. Wiegand is currently an alternate councilor for the Puget Sound Section of the ACS. She earned her Ph.D. from Northern Illinois University in 1990. Before completing her degree and coming to the UW as a lecturer later that year, she held positions in industry and as an instructor at a small midwest college. While she chaired the Rock River Section of the ACS in 1987, the group won an Outstanding Section Award. (CHEM LETTER, VOLUME 18, AUGUST 1992, University of Washington Department of Chemistry)

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HIGHLIGHTS OF THE 47th NW REGIONAL ACS MEETING

The 47th Northwest Regional ACS Meeting was held on the campus of the University of Montana in Missoula June 17-19. The University Center served as the focal point of meeting activities. There were over 350 registrants with 211 papers presented.

The plenary lecture, entitled "Asymmetric Synthesis with 1,3-Oxathiane-derived Ketones with Functionalized Side-Chains," was presented by ACS President Ernest Eliel. He also presented a memorable talk concerning ACS organization and activities at the banquet. The eight symposia presented covered the areas of antiviral drugs, complex kinetics, theoretically important compounds, environmental chemistry, mixed wastes, and pyrolysis and combustion of biomass.

A full bus-load of guests toured the nearby National Bison Range and St. Ignatius Mission, followed by a lunch overlooking the Mission Mountains. A successful National Employment Clearing House was held in conjunction with the meeting.

The banquet featured a memorable talk by President Eliel on the structure of the ACS. The presentation of the 1992 Northwest Regional Award to Jan Vanderhooft of Brighton High School in Salt Lake also took place at the banquet.

ACS PUBLIC OUTREACH OFFICE ESTABLISHED

Studies done on the attitudes of ACS members show most have a common concern: the public's image of chemists and chemistry. Public opinion polls verify the sad fact that most Americans believe that 1) chemical companies are the major polluters of the environment and 2) chemicals, per se, are harmful. Since the founding of the ACS, governance and public-communications staffers have worked hard to change these perceptions in favor of a realistic understanding of the way chemicals and chemistry affect human society. This small ACS group has won some battles, but it has lacked the manpower to win the war. Until now.

In 1991, ACS executive director John Crum named former director of administration Ann Messmore to head the Office of Public Outreach, a new office charged with blending the expertise of the staffs of several departments—the Department of Public Communication, National Chemistry Week, Marketing, the Development Office, Member and Subscriber Services, the Society's Ombudsman, and the Belmont Conference Center—and exploring new approaches to the public-image issue.

In its first year, the Public Outreach Program has developed an extensive public outreach plan. Central to the plan is the identification of target audiences, development of specific messages for each of those targets, and repeated delivery of the messages. But the critical component of the plan is the determination to mobilize the membership in a concerted public-outreach effort at the local section level.

The 144,000 members of the ACS—the largest scientific society in the world—are collectively one of the proverbial sleeping giants. Sufficiently awakened, they can make continuous and crucial contributions to the battle for public opinion.

Between August '91 and March '92, thousands of ACS members received a Volunteers in Public Outreach (VIP) Action List in the mail or saw it printed in ACSESS, and made a commitment to take action in their communities. The outreach activities they agreed to undertake range from simply wearing a button that states "I'm Proud to Be A Chemist!" to volunteering to chair their local section's public relations (PR) committee. Members are being trained at PR workshops offered at each national meeting and at selected regional meetings. Local section PR chairs are attending intensive three-day workshops at the Belmont Conference Center to learn how to organize for action, plan community outreach activities, and attract media coverage.

Initially, Public Outreach will focus its primary efforts on reaching only a small—but influential—portion of the general population. By targeting and tailoring messages and constantly measuring, evaluating, and redirecting programs and resources, we will move toward expanding that universe.

But the battle for public opinion can be won only by mobilizing the men and women of the ACS. Already more than 2,000 members have become Volunteers in Public Outreach and are working with schools and communities across the nation. For more information on how you can get involved, write to Public Outreach Office, Room 711, American Chemical Society, 1155 16th Street N.W., Washington, D.C. 20036.

PUGET SOUND CHEMIST



BULLETIN OF THE
PUGET SOUND SECTION
AMERICAN CHEMICAL SOCIETY

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Meetings are open to all members and are held
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